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TITLE: POWDER FEEDER

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ABSTRACT:

PURPOSE: To feed a non-viscous powder with the particles separated from one another, capable of forming a thermally sprayed film uniform in thickness and obtained by treating a viscous powder along with a high-pressure gas to an induction plasma spraying device.

CONSTITUTION: A high-pressure gas inlet pipe 17 is inserted in parallel into the powder feed pipe 16 of a powder feeder to send a high-pressure gas into the pipe 16, a large-capacity pressure transducing box 18 is provided below the pipes, a viscous powder 2 sent from the pipe 16 is introduced into the box 18 along with the high-pressure gas from the pipe 17, the pressure of the gas is reduced in the box 18 to a constant pressure, the viscous powder is agitated under high pressure to separate the particles from one another, and the

obtained non-viscous powder is supplied to an induction plasma spraying device from a pipe 19 along with the carrier gas.

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